OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/831,951A

DATE: 02/07/2002
TIME: 07:27:21

Input Set : A:\Osanai Seq Lst 1-4-02.txt
Output Set: N:\CRF3\02072002\I831951A.raw

Does Not Comply
Corrective Diskette Needed

```
      1 <110> APPLICANT: SUNTORY LIMITED
W-->  2 <120> TITLE OF INVENTION: Inhibitor and Activator of Coupling Factor-6 and Antigen
thereto
W-->  3 <130> FILE REFERENCE: YCT-515
W-->  4 <140> CURRENT APPLICATION NUMBER: PCT/JP00/5210A
C-->  5 <141> CURRENT FILING DATE: 2001-05-16
      6 <150> PRIOR APPLICATION NUMBER: JPA 264687/99
      7 <151> PRIOR FILING DATE: 1999-09-17
W-->  8 <160> NUMBER OF SEQ ID: 24
     10 <210> SEQ ID NO: 1
     11 <211> LENGTH: 76
     12 <212> TYPE: PRT
     13 <213> ORGANISM: Human
W--> 14 <400> SEQUENCE: 1
     15 Asn Lys Glu Leu Asp Pro Ile Gln Lys Leu
     16   1               5                  10
     17 Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser
     18                  15                  20
     19 Lys Arg Gln Thr Ser Gly Gly Pro Val Asp
     20                  25                  30
     21 Ala Ser Ser Glu Tyr Gln Gln Glu Leu Glu
     22                  35                  40
     23 Arg Glu Leu Phe Lys Leu Lys Gln Met Phe
     24                  45                  50
     25 Gly Asn Ala Asp Met Asn Thr Phe Pro Thr
     26                  55                  60
     27 Phe Lys Phe Glu Asp Pro Lys Phe Glu Val
     28                  65                  70
     29 Leu Glu Lys Pro Gln Ala
     30                  75
     32 <210> SEQ ID NO: 2
     33 <211> LENGTH: 76
     34 <212> TYPE: PRT
     35 <213> ORGANISM: Rat
W--> 36 <400> SEQUENCE: 2
     37 Asn Lys Glu Leu Asp Pro Val Gln Lys Leu
     38   1               5                  10
     39 Phe Leu Asp Lys Ile Arg Glu Tyr Lys Ala
     40                  15                  20
     41 Lys Arg Leu Ala Ser Gly Gly Pro Val Asp
     42                  25                  30
     43 Thr Gly Pro Glu Tyr Gln Gln Glu Val Asp
     44                  35                  40
     45 Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr
```

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```
     46                  45                  50
     47 Gly Lys Gly Glu Met Asp Lys Phe Pro Thr
     48                  55                  60
     49 Phe Asn Phe Glu Asp Pro Lys Phe Glu Val
     50                  65                  70
     51 Leu Asp Lys Pro Gln Ser
     52                  75
     55 <210> SEQ ID NO: 3
     56 <211> LENGTH: 5
     57 <212> TYPE: PRT
     58 <213> ORGANISM: Unknown
W--> 59 <220> FEATURE:
W--> 60 <221> NAME/KEY:
     61 <222> LOCATION:
     62 <223> OTHER INFORMATION: Enterokinase recognition site
W--> 63 <400> SEQUENCE: 3
     64 Asp Asp Asp Asp Lys
     66 <210> SEQ ID NO: 4
     67 <211> LENGTH: 139
     68 <212> TYPE: PRT
     69 <213> ORGANISM: E. coli
W--> 70 <400> SEQUENCE: 4
     71 Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp
     72   1               5                  10                  15
     73 Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
     74                  20                  25                  30
     75 Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Thr Asp
     76                  35                  40                  45
     77 Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe
     78                  50                  55                  60
     79 Ala Trp Phe Pro Ala Pro Glu Ala Val Pro Glu Ser Leu Leu Glu
     80                  65                  70                  75
     81 Ser Asp Leu Pro Glu Ala Asp Thr Val Val Val Pro Ser Asn Trp
     82                  80                  85                  90
     83 Gln Met His Gly Tyr Asp Ala Pro Ile Tyr Thr Asn Val Thr Tyr
     84                  95                 100                 105
     85 Pro Ile Thr Val Asn Pro Pro Phe Val Pro Thr Glu Asn Pro Thr
     86                 110                 115                 120
     87 Gly Ser Tyr Ser Leu Thr Phe Asn Val Asp Glu Ser Trp Leu Gln
     88                 125                 130                 135
     89 Glu Gly Gln Thr
     92 <210> SEQ ID NO: 5
     93 <211> LENGTH: 97
     94 <212> TYPE: PRT
     95 <213> ORGANISM: E. coli
W--> 96 <400> SEQUENCE: 5
     97 Thr Met Ile Thr Asp Ser Leu Ala Val Val Leu Gln Arg Arg Asp
     98   1               5                  10                  15
     99 Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His
```

← number the amino acids under every 5 amino acids

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```
100                 20                  25                  30
101 Pro Pro Phe Ala Ser Trp Arg Asn Ser Asp Asp Ala Arg Thr Asp
102                 35                  40                  45
103 Arg Pro Ser Gln Gln Leu Arg Ser Leu Asn Gly Glu Trp Arg Phe
104                 50                  55                  60
105 Ala Trp Phe Pro Ala Pro Glu Ala Val Pro Asp Ser Leu Leu Asp
106                 65                  70                  75
107 Ser Asp Leu Pro Glu Ala Asp Thr Val Val Val Pro Ser Asn Trp
108                 80                  85                  90
109 Gln Met His Gly Tyr Asp Ala
110                 95
113 <210> SEQ ID NO: 6
114 <211> LENGTH: 23
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
W--> 117 <220> FEATURE:
W--> 118 <221> NAME/KEY:
119 <222> LOCATION:
120 <223> OTHER INFORMATION: Primer used in PCR method
W--> 121 <400> SEQUENCE: 6
122   atgactgttc agaggatctt cag                                  23
124 <210> SEQ ID NO: 7
125 <211> LENGTH: 27
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
W--> 128 <220> FEATURE:
W--> 129 <221> NAME/KEY:
130 <222> LOCATION:
131 <223> OTHER INFORMATION: Primer used in PCR method
W--> 132 <400> SEQUENCE: 7
133   gtcgactcag gactggggtt tgtcgag                              27
135 <210> SEQ ID NO: 8
136 <211> LENGTH: 23
137 <212> TYPE: DNA
138 <213> ORGANISM: Artificial Sequence
W--> 139 <220> FEATURE:
W--> 140 <221> NAME/KEY:
141 <222> LOCATION:
142 <223> OTHER INFORMATION: Primer used in PCR method
W--> 143 <400> SEQUENCE: 8
144   atgattcttc agaggctctt cag                                  23
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 28
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
W--> 150 <220> FEATURE:
W--> 151 <221> NAME/KEY:
152 <222> LOCATION:
153 <223> OTHER INFORMATION: Primer used in PCR method
```

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Input Set : A:\Osanai Seq Lst 1-4-02.txt
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W--> 154 <400> SEQUENCE: 9
155 gtcgactcag gcctggggtt tttcgatg 28
157 <210> SEQ ID NO: 10
158 <211> LENGTH: 45
159 <212> TYPE: DNA
160 <213> ORGANISM: Artificial Sequence
W--> 161 <220> FEATURE:
W--> 162 <221> NAME/KEY:
163 <222> LOCATION:
164 <223> OTHER INFORMATION: Gene coding for enterokinase recognition site and Eco RI recognition
165 site
W--> 166 <400> SEQUENCE: 10
167 gaattcgacg atgacgataa gaataaggaa cttgatcctg tacag 45
169 <210> SEQ ID NO: 11
170 <211> LENGTH: 46
171 <212> TYPE: DNA
172 <213> ORGANISM: Artificial Sequence
W--> 173 <220> FEATURE:
W--> 174 <221> NAME/KEY:
175 <222> LOCATION:
176 <223> OTHER INFORMATION: Gene coding for enterokinase recognition site and Eco RI recognition
177 site
W--> 178 <400> SEQUENCE: 11
179 gaattcgacg atgacgataa gaataaggaa cttgatccta tacaga 46
181 <210> SEQ ID NO: 12
182 <211> LENGTH: 20
183 <212> TYPE: PRT
184 <213> ORGANISM: rat
W--> 185 <400> SEQUENCE: 12
186 Cys Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu
187 1 5 10 15
188 Asp Lys Pro Gln Ser
189 20
190 <210> SEQ ID NO: 13
191 <211> LENGTH: 20
192 <212> TYPE: PRT
193 <213> ORGANISM: rat
W--> 194 <400> SEQUENCE: 13
195 Tyr Phe Pro Thr Phe Asn Phe Glu Asp Pro Lys Phe Glu Val Leu
196 1 5 10 15
197 Asp Lys Pro Gln Ser
198 20
201 <210> SEQ ID NO: 14
202 <211> LENGTH: 19
203 <212> TYPE: PRT
204 <213> ORGANISM: human
W--> 205 <400> SEQUENCE: 14
206 Cys Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln
207 1 5 10 15

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Input Set : A:\Osanai Seq Lst 1-4-02.txt
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208 Thr Ser Gly Gly
211 <210> SEQ ID NO: 15
212 <211> LENGTH: 18
213 <212> TYPE: PRT
214 <213> ORGANISM: human
W--> 215 **<400> SEQUENCE: 15**
216 Leu Phe Val Asp Lys Ile Arg Glu Tyr Lys Ser Lys Arg Gln Thr
217 1 5 10 15
218 Ser Gly Gly
221 <210> SEQ ID NO: 16
222 <211> LENGTH: 39
223 <212> TYPE: PRT
224 <213> ORGANISM: rat
W--> 225 **<400> SEQUENCE: 16**
226 Asn Lys Glu Leu Asp Pro Val Gln Lys Leu Phe Leu Asp Lys Ile
227 1 5 10 15
228 Arg Glu Tyr Lys Ala Lys Arg Leu Ala Ser Gly Gly Pro Val Asp
229 20 25 30
230 Thr Gly Pro Glu Tyr Gln Gln Glu Val
231 35
234 <210> SEQ ID NO: 17
235 <211> LENGTH: 16
236 <212> TYPE: PRT
237 <213> ORGANISM: rat
W--> 238 **<400> SEQUENCE: 17**
239 Asp Arg Glu Leu Phe Lys Leu Lys Gln Met Tyr Gly Lys Gly Glu
240 1 5 10 15
241 Met
244 <210> SEQ ID NO: 18
245 <211> LENGTH: 9
246 <212> TYPE: PRT
247 <213> ORGANISM: rat
W--> 248 **<400> SEQUENCE: 18**
249 Asp Lys Phe Pro Thr Phe Asn Phe Glu
250 1 5
253 <210> SEQ ID NO: 19
254 <211> LENGTH: 7
255 <212> TYPE: PRT
256 <213> ORGANISM: rat
W--> 257 **<400> SEQUENCE: 19**
258 Asp Pro Lys Phe Glu Val Leu
259 1 5
262 <210> SEQ ID NO: 20
263 <211> LENGTH: 5
264 <212> TYPE: PRT
265 <213> ORGANISM: rat
W--> 266 **<400> SEQUENCE: 20**
267 Asp Lys Pro Gln Ser
268 1 5

VERIFICATION SUMMARY DATE: 02/07/2002
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Input Set : A:\Osanai Seq Lst 1-4-02.txt
Output Set: N:\CRF3\02072002\I831951A.raw

L:2 M:283 W: Missing Blank Line separator, <120> field identifier
L:3 M:283 W: Missing Blank Line separator, <130> field identifier
L:4 M:283 W: Missing Blank Line separator, <140> field identifier
L:4 M:270 C: Current Application Number differs, Replaced Current Application Number
L:5 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:8 M:283 W: Missing Blank Line separator, <160> field identifier
L:14 M:283 W: Missing Blank Line separator, <400> field identifier
L:36 M:283 W: Missing Blank Line separator, <400> field identifier
L:59 M:283 W: Missing Blank Line separator, <220> field identifier
L:60 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:63 M:283 W: Missing Blank Line separator, <400> field identifier
L:70 M:283 W: Missing Blank Line separator, <400> field identifier
L:96 M:283 W: Missing Blank Line separator, <400> field identifier
L:117 M:283 W: Missing Blank Line separator, <220> field identifier
L:118 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:121 M:283 W: Missing Blank Line separator, <400> field identifier
L:128 M:283 W: Missing Blank Line separator, <220> field identifier
L:129 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:132 M:283 W: Missing Blank Line separator, <400> field identifier
L:139 M:283 W: Missing Blank Line separator, <220> field identifier
L:140 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:143 M:283 W: Missing Blank Line separator, <400> field identifier
L:150 M:283 W: Missing Blank Line separator, <220> field identifier
L:151 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:154 M:283 W: Missing Blank Line separator, <400> field identifier
L:161 M:283 W: Missing Blank Line separator, <220> field identifier
L:162 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:166 M:283 W: Missing Blank Line separator, <400> field identifier
L:173 M:283 W: Missing Blank Line separator, <220> field identifier
L:174 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:178 M:283 W: Missing Blank Line separator, <400> field identifier
L:185 M:283 W: Missing Blank Line separator, <400> field identifier
L:194 M:283 W: Missing Blank Line separator, <400> field identifier
L:205 M:283 W: Missing Blank Line separator, <400> field identifier
L:215 M:283 W: Missing Blank Line separator, <400> field identifier
L:225 M:283 W: Missing Blank Line separator, <400> field identifier
L:238 M:283 W: Missing Blank Line separator, <400> field identifier
L:248 M:283 W: Missing Blank Line separator, <400> field identifier
L:257 M:283 W: Missing Blank Line separator, <400> field identifier
L:266 M:283 W: Missing Blank Line separator, <400> field identifier
L:275 M:283 W: Missing Blank Line separator, <220> field identifier
L:276 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:279 M:283 W: Missing Blank Line separator, <400> field identifier
L:287 M:283 W: Missing Blank Line separator, <220> field identifier
L:288 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:291 M:283 W: Missing Blank Line separator, <400> field identifier
L:299 M:283 W: Missing Blank Line separator, <220> field identifier
L:300 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23

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Input Set : A:\Osanai Seq Lst 1-4-02.txt
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L:303 M:283 W: Missing Blank Line separator, <400> field identifier
L:311 M:283 W: Missing Blank Line separator, <220> field identifier
L:312 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:315 M:283 W: Missing Blank Line separator, <400> field identifier